

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An ~~insulating~~ element in the form of a plate or roll felt for shipbuilding, ~~from comprising~~ mineral fibers, made of bonded fibers soluble bound in a physiological agent, ~~especially insulating element, wherein the insulating element may be~~ utilized as fire and/or thermal and/or sound protection, ~~characterized in that wherein~~ the composition of the mineral fibers of the insulating element amounts to an alkali/alkaline-earth mass ratio of < 1 , and ~~wherein the fiber structure of the~~ insulating element is determined comprised of a bead portion in the mineral fibers in an amount < 1 % of the insulating element exempt of beads as well as by an average geometrical fiber diameter of $\leq 4 \mu\text{m}$, a surface weight of 0.8 through 4.3 kg/m^2 , and ~~wherein a portion of a bonding agent, which referred to of the fiber mass of the~~ insulating elements in relation to the mineral fibers is in the range above of 0.5 through 4% by weight, %.

2. (Currently Amended) The ~~insulating~~ element according to claim 1, wherein ~~characterized in that~~ the bonding agent is an organic bonding agent.

3. (Currently Amended) The ~~insulating~~ element according to claim 1, wherein ~~characterized in that~~ the portion of the bonding agent, in relationed to the mineral fibers mass of the insulating element, lies within the range of 0.5 to 3% by weight, %, in particular 0.5 to 2 weight %.

4. (Currently Amended) The ~~insulating~~ element according to claim 1, particularly adapted for the insulation of the ship a vessel's deck, ~~characterized in that wherein~~ the surface weight of the insulating element with a Fire Resistance Category A15 or similar is in the range of about from amounts to 0.8 to 1.4 kg/m^2 , preferably 1.2 kg/m^2 , with a Fire Resistance Category A30 or similar, from 1.2 to 1.8 kg/m^2 , preferably 1.6 kg/m^2 , and with a Fire Resistance Category A60 or similar, from 2.0 to 2.5 kg/m^2 , preferably 2.3 kg/m^2 .

5. (Currently Amended) The ~~insulating~~ element according to claim 1, particularly adapted for the insulation ship of a vessel's bulkhead, ~~characterized in that wherein~~ the weight per unit area of the insulating element with a Fire Resistance Category A15 or similar is in the

range of about amounts from 0.8 to 1.4 kg/m², ~~preferably 1.2 kg/m²~~, with a Fire Resistance Category A30 or similar, from 2.3 to 3.0 kg/m², ~~preferably 2.7 kg/m²~~, and with a Fire Resistance Category A60 or similar, from 3.2 to 4.3 kg/m², ~~preferably 4.0 kg/m²~~.

6. (Currently Amended) ~~The~~ insulating element according to claim 1, ~~by the fact characterized in that~~ wherein the insulating element ~~it~~ features an λ - ~~value~~ arithmetic procedure of ≤ 35 mW/mK.

7. Canceled.

8. (Currently Amended) ~~The~~ insulating element according to claim 1, ~~thereby characterized in that~~ wherein the insulating elements ~~is~~ are compressible, ~~at least for the purpose of their packing; in the~~ minimum ratio of 1:2, ~~in case of~~ corresponding to an upper gross density up to 50 kg/m³, and in ~~a maximum particular in the~~ ratio of 1:3, ~~in case of~~ corresponding to an upper gross density ~~it~~ up to 30 kg/m³.

9. (Currently Amended) ~~The~~ insulating element according to Claim 1 wherein the insulating element is in the form of roll felt, ~~in accordance with preamble of claim 1, characterized in that~~ wherein the composition of the mineral fiber of the insulating element amounts to an alkali/alkaline-earth mass ratio of < 1 , ~~and~~ wherein the fiber structure of the insulating element is determined by an average geometrical fiber diameter of ≤ 4 μ m and the roll felt ~~features~~ is substantially in the form of a stepped wire mat, whose utilization temperature is > 500 °C with gross densities between 45 and 75 kg/m³, ~~especially between 55 and 65 kg/m³~~, and a wherein the bonding agent content is about < 2 weight %, ~~especially between 0.5 and 1.5 weight %.~~

10. (Currently Amended) ~~The~~ insulating element according to claim 1, ~~characterized in that~~ wherein the mineral fibers of the insulating element are manufactured by an internal centrifugation in the a centrifuge basket procedure, ~~with a~~ wherein the temperature at the centrifugation basket ~~is~~ of at least ~~4,400~~ 1,100 °C.

11. (Currently Amended) ~~The~~ insulating element according claim 1, ~~characterized in that it is designed for~~ wherein the insulating element is operatively associated with a surpassing insulation of vessel's frames.

12. (Currently Amended) ~~The~~ insulating element Molded section according to claim 11, ~~characterized in that~~ wherein the insulating element molded section features a further

comprises at least one lamination, like selected from one of an aluminum foil or a glass cloth fleece, being applied in such a manner around the frames of a vessel such that it encloses these insulating element and the at least one lamination-units in one processing step exempt of a thermal bridge.

13. (Currently Amended) ~~The~~ insulating element and/or molded element according to claim 1, ~~characterized in that wherein~~ the mineral fibers of the insulating element ~~and/or molded element~~, correspond, regarding their solubility in a physiological agent environment, to at least one of the requirements of the European guideline 97/69/EG and/or the requirements of the German dangerous material regulation exp. IV NR. 22.

14. (Currently Amended) ~~The~~ insulating element and/or molded element according to claim 13, ~~characterized by wherein~~ the following ranges of the chemical composition of the mineral fibers are as follows:

SiO ₂	39-55 %	preferably	39-52 %
Al ₂ O ₃	16-27 %	preferably	16-26 %
CaO	6-20 %	preferably	8-18 %
MgO	1-5 %	preferably	1-4.9 %
Na ₂ O	0-15 %	preferably	2-12 %
K ₂ O	0-15 %	preferably	2-12 %
R ₂ O (Na ₂ O + K ₂ O)	10-14.7 %	preferably	10-3.5 %
P ₂ O ₅	0-3 %	especially	0-2 %
Fe ₂ O ₃ (iron total)	1.5-15 %	especially	3.2-8 %
B ₂ O ₃	0-2 %	preferably	0-1 %
TiO ₂	0-2 %	preferably	0.4-1 %
Other	0-2.0 %		

15. (New) An insulating element in the form of a plate or roll felt for shipbuilding, comprising:

mineral fibers, made of bonded fibers soluble in a physiological agent, and further comprising an organic bonding agent;

wherein the insulating element may be utilized as fire and/or thermal and/or sound protection;

wherein the composition of the mineral fibers of the insulating element amounts to an alkali/alkaline-earth mass ratio of < 1 ;

wherein the insulating element is comprised of a bead portion in the mineral fibers in an amount < 1 % of the insulating element as well as by an average geometrical fiber diameter of $< 4 \mu\text{m}$, and a surface weight of 0.8 through 4.3 kg/m^2 ;

wherein the organic bonding agent of the insulating element, in relation to the mineral fibers, is in the range of 0.5 through 4% by weight;

wherein the surface weight of the insulating element with a Fire Resistance Category A15 is in the range of about from 0.8 to 1.4 kg/m^2 , with a Fire Resistance Category A30 about from 1.2 to 1.8 kg/m^2 , and with a Fire Resistance Category A60 about from 2.0 to 2.5 kg/m^2 ;

wherein the mineral fibers of the insulating element are manufactured by internal centrifugation in a centrifuge basket procedure, wherein the temperature at the centrifugation basket is at least $1,100^\circ\text{C}$;

wherein the mineral fibers of the insulating element correspond, regarding their solubility in a physiological agent, to at least one of the requirements of the European guideline 97/69/EG and the requirements of the German dangerous material regulation exp. IV NR. 22; and

wherein the ranges of chemical composition of the mineral fibers are as follows:

SiO ₂	39-55	%	preferably	39-52	%
Al ₂ O ₃	16-27	%	preferably	16-26	%
CaO	6-20	%	preferably	8-18	%
MgO	1-5	%	preferably	1-4.9	%
Na ₂ O	0-15	%	preferably	2-12	%
K ₂ O	0-15	%	preferably	2-12	%
R ₂ O (Na ₂ O + K ₂ O)	10-14.7	%	preferably	10-3.5	%
P ₂ O ₅	0-3	%	especially	0-2	%
Fe ₂ O ₃ (iron total)	1.5-15	%	especially	3.2-8	%
B ₂ O ₃	0-2	%	preferably	0-1	%
TiO ₂	0-2	%	preferably	0.4-1	%
Other	0-2.0	%			